BRUHATH BANGALORE MAHANAGARA PALIKE

DasArahalli ZONE

Name of Work:- Maintenance and repairs of Borewell and maintanance of footpath and drain in Ward No.12 Shettyhalli, Shettyhalli Sub Division.

Job Code:- **Pcode: P1771** **Est .Cost: Rs.60.00 Lakhs**

Sl No	Particulars	Unit	Qty	Rate	Amount
	PART-A				
A	**MOTOR REWINDING**				
1	Repairs to Motor Rewinding of submersible pumpsets with copper insulation wire suitable guage as per ISI specification with guarantee of 6 months, Above 5H.P Upto 10.H.P add Rs 192.50 / per Every .5HP, Above 10 H.P Upto 20 HP Add 175 per every .5 HP (BWSSB SR 17-18 P-58 I-A)				
	10.00 HP (BWSSB SR 17-18 P-58 I-A)	No	38.00	5048.00	191824.00
	12.50 H.P (BWSSB SR 17-18 P-58 I-A)	No	30.00	6367.00	191010.00
	15.00 H.P (BWSSB SR 17-18 P-58 I-A)	No	45.00	7248.00	326160.00
B	**Repair of Pump parts**				
	Replacement of Pump parts the following main components of submersible pump setss requiring replacement (BWSSB SR 17-18 P-58 I B1 to 17)				
2	Pump bowls	No	565.00	338.00	190970.00
3	Intermediate piece (I.P)with 1.P. Leaded Bronze Bush	No	113.00	781.00	88253.00
4	Oil seal	No	113.00	132.00	14916.00
5	Oil seal steel bush	No	113.00	145.00	16385.00
6	Guide Vane	No	565.00	212.00	119780.00
7	Impeller (Shell moulded with aluminium &bronze)	No	565.00	288.00	162720.00
8	Discharge outlet (D.O) Bearing D.O Steel Bush	No	113.00	571.00	64523.00
9	D.O Bearing	No	113.00	93.50	10565.50
10	Steel bearing Bush (D.O Steel Bush)	No	113.00	192.00	21696.00
11	Alen Screw	No	113.00	84.00	9492.00
12	Pump shoft made out of stainless steel centreless ground with key (up to 8 stages)+ Rs.40/- extra 20 stages	No	113.00	721.00	81473.00
13	Pump key (stainless steel)	No	113.00	132.00	14916.00
14	pump coupling (stainless steel)	No	113.00	373.00	42149.00
15	Non-return valve (NRV) assembly complete with rubber 'O' ring	Each	113.00	625.00	70625.00
16	Cable Guad	Each	113.00	181.00	20453.00
17	Strainer	Each	113.00	2121.00	239673.00
18	Brass Filter	Each	113.00	132.00	14916.00
19	Labour charges (Over hauling only)	Each	113.00	600.00	67800.00
C	**Replacement of Motor parts**				
20	Upper Flange	Each	113.00	361.00	40793.00
21	Lower Housing	Each	113.00	589.00	66557.00
22	Lower Flange	Each	113.00	445.00	50285.00

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3	Lock Ring	Each	113.00	96.00	10848.00
24	Carbon Housing	Each	113.00	445.00	50285.00
25	Thrust bearing block assembly complete with segment bearing pad	Each	113.00	601.00	67913.00
26	Tip Carbon / Ferrodod Padding	Each	113.00	1922.00	217186.00
27	Stud and Nuts	Each	113.00	96.00	10848.00
28	Bearing (Gun Metal) Centrifugal Cas Aluminium Bronze, Bearing Bush	Each	113.00	445.00	50285.00
29	Circlips	Each	113.00	55.00	6215.00
30	Motor base with pin	Each	113.00	445.00	50285.00
31	Transportation of pumping machinaries	Each	113.00	600.00	67800.00
32	Labour charges for lifting of non-functioning submersible pump set along with cable and GI pipes(BWSSB SR 17-18 P-558 I-1(i))	Each	3965.00	113.00	448045.00
33	Labour charges for Erection of new / repaired submersible pump set along with G.I. pipes (50/32mm), S.M cable (New submersible pump set if required will be supplied by the department free of cost and released pump set should be handed over to department) including transporation for 3 HP to 20 HP and for all depths (BWSSB SR 17-18 P-558 1-3)	Each	3965.00	92.00	364780.00
34	Supply and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to cable 3 class 5 of IS 8130-1984 and latest amendments of IS 694 / 1990 and virgin grade PVC insulation and sheathed suitable for working voltage up to 1100 volts (BWSSB SR 17-18 P-529, I-30 c)	Rmt	4400.00	140.00	616000.00
35	Fabricating Supplying and Mounting MS Box Made out 14 SWG Suitable For Floor/ Wall Mounting Fully Weather Proof With Provision For Better Heat Dissipation, Provided With Hinged Front Cover, Equipped With Tamper Proof Locking Arrangements, With Suitable Size Clamps With Necessary Cable Entry Pipe With Gland and Box Should be Finished With 2 Coats Of red Oxide Primer Paint And Finally Finished With Approved Colour Enameled Metal Pain Etc, Complete, BWSSB S.R -2012-13, Page No:403, Item No39(a) D ,1200 X800X2=1920000, 800X300X2=480000, 300X400/2=350X1200X840000 =3240000 /100=32400 SQCM X0.39=12636	Sq.Cm	10.00	12960.00	129600.00
36	Supplying and fixing angle iron frame work fabricated out of MS angle iron and MS flat with Bolts, washers etc and painted with 2 coats of red oxide and then two coats of approved paint 40 x 40 x 6mm (PWD S.R 2019-20 P-30,I-5.41.1	No	30.00	255.00	7650.00
37	Supply and fixing polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered incerted wooden plugs screws etc F) 20" x 20" x 2.5" (BWSSB SR 17-18 P-515 I-2 (F)	Each	10.00	175.20	1752.00

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PWD.SR. 2019-20 P22-1-5.17.7

38	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC-60898/PWD S.R 2019-20 P-	No	10.00	1715.00	17150.00
39	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers (PWD S.R 2019-20 P-24-25,I-5.7.3) 63 amps	No	30.00	227.00	6810.00
40	Supplying and delivery at site brand new texmo / innoval / Lubi / Sabar / Atalanta / Calamal make suitable for vertical installation in 150mm dia borewell comprising of single stage of multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for operation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required accessories such as suction casing suction strainers sand guard Non return value etc., complete. The pump and motor shall form an integral unit with all the required fittings 15.00 HP 30 stage , Item No: 33, Page No:XXXXIII, PWD SR-2016-17	No	8.00	67724.00	541792.00
41	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LTcable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 (PWD S.R 2019-20 P-40, I-6.4.4) 4 core 16 sq.mm	Rmtr	300.00	150.00	45000.00
42	Labour charges for laying 1.1Kv class UG cable when supplied departmentally/agency in existing GI pipes /stoneware/on wall/on pole (PWD S.R 2019-20 P-41, I-6.5.1) 6sqmm to 16sqmm	Cum	300.00	11.88	3564.00
43	Digging of trench of 0.6m deep x 0.50 mtrs wide refilling the trench to the required ground level and consolidating etc., complete. (As per civil SR KSRB I-2, P-7) In soil hard (PWD S.R 2019-20 P-41, I-6.6.2)	Rmtr	280.00	104.00	29120.00
44	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3 phase and wired after fixing to the existing wooden board for motor Upto 12.5HP (PWD S.R 2019-20 P-24,I-5.2)	Each	11.00	6400.00	70400.00
45	Supplying and fixing 50 mm GI pipes 'C' class heavy duty for erection of submersible pumpset (As per BWSSB Store Issued Rate)	Mtrs	480.00	405.00	194400.00
			Sub total		5125662.50
46	Tender percentage 5%				256283.13
47	Add GST @ 12%				615079.50
					5997025.13
48	Miscellaneous and unforeseen charges				2974.88
			Grand Total		6000000.00
	(Rupees Sixty Lakhs Only)				

CERTIFICATE

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1) The work spot has been inspected and the work found to be necessary
2) The Estimate is prepared as per the PWD SR 2018-19 , BWSSB S.R 2017-18 & ELE SR 2019-20
3) The provision made in estimate are inadequated and essential
4) The area comes under BBMP limits

Asst Engineer
Ward No-12
BBMP

Asst Executive Engineer
Shettyhalli Sub-Division
BBMP

Executive Engineer
Dasarahalli Zone
BBMP

ADMINISTRATIVELY SANCTIONED FOR
(Rupees 60,00,000/- Sixty lakhs only
Under the Head of Account P-1771
Registered as no EE(D.D.)/AS...05...Subject to conditions contained in Enclosed Memo
No. 05 /2021-22 Dt: 05.05.2021

JE/AE (DASARAHALLI Zone)

Technically Sanctione for Rs. 51.75 lakhs
Rs. In words Rs. Fifty one lakhs Seventy five thousand six hundred & sixty rupees
Under P-1771
Job Code No. 012-20-000124
Registered as CE No. 07/2021-22 Subject to conditions contained in Enclosed Memo
No CE/D2/TS/071 2021-22 Dt: 05/07/2021

AE/JE: TA CE(D)

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